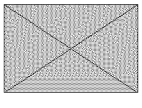
To: 'Kinsey, Katie'[kinsey@dmww.com]
Cc: Davidson, Amie [DNR][Amie.Davidson@dnr.iowa.gov]; McCoy, Erin[McCoy.Erin@epa.gov]
From: Jackson, Hylton [DNR]
Sent: Tue 11/8/2016 7:01:59 PM
Subject: RE: DICO Site
removed.txt
OU-3-NorthPlume-2015.pdf
OU-3_DICO_Site_RE.pdf

Katie,

Since there is a project planned for the north end of the DICO site (OU-3) I finally put together a short, updated report (see attached OU-3 NorthPlume pdf) on the groundwater sampling that the Department conducted a year ago. Of the seven monitoring wells sampled, only one –NW-36, showed a concentration of chlorinated solvents; Cis-1,2-DCE at 9 ug/L which was above the detection limit of 5 ug/L. The static water levels were just a little shallower than average but there were none noted less than 13.49 feet below the top of casing. (NW-31 and NW-32 have a 2-foot vertical stickup and everything else is flush-mount.) I have also attached an email thread between me and Erin McCoy at EPA (see OU-3_DICO). As we have discussed so far, some soil sampling and maybe a couple of groundwater samples would be appropriate to address some of the concerns associated at the site. I would certainly think that three or four soil samples taken north of the river would not be excessive. I would suggest advancing them to depths of at least 5 feet below the anticipated depth of the sewer pipe. I would like to see at least one groundwater sample collected from north of the river. We should also collect a couple of soil samples south of the river. Analytical parameters should address the concerns raised in the 1992 RI (namely VOCs and arsenic). The results will demonstrate the level of concern for human health (probably low) and what kind of solid waste issues the excavated soil may present. Call if you have any questions. I am asking for DMWW to present a work plan for the proposed sampling. Get in touch with me if we need to discuss any details before you prepare the work plan. Please keep in mind that I am only addressing the concerns of Iowa DNR as they relate to OU-3, the North Plume. Since the path of the proposed sewer line "splits" the OU-3 area and the DICO Superfund site, EPA may have comments or concerns relating to the DICO site.

HYLTON JACKSON Environmental Specialist

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From: Kinsey, Katie [mailto:kinsey@dmww.com]
Sent: Tuesday, November 01, 2016 3:31 PM
To: Jackson, Hylton [DNR]
Subject: DICO Site

Hylton,

DMWW has some nitrate waste that needs to travel from the Fleur Drive Water Treatment Plant north and east across the Raccoon River to a sanitary sewer that will eventually get to the WRA. A proposed alignment for this waste line goes through the DCE plume for the DICO site located just east of the Fleur Drive Water Treatment Plant. I am curious what restrictions DMWW has when designing or installing this line. I have attached the Fifth Five Year Review Report to this email. I have extracted plume maps from this report as the second attachment. On the first page of the second attachment, I have roughly drawn in the proposed alignment of this waste line in blue.

This waste line will be 12" in diameter and will be constructed using open cut methods, except when it will be installed under the Raccoon River. I am proposing to directionally drill the waste line under the River. Through the plume, I anticipate the waste line will be approximately 5 to 10 feet deep. It may be deeper under the banks of the River. Can you please help me learn what restrictions DMWW has for this line? I am curious about what materials I can use and also, what are we required to do with the soils that are disturbed because of the open cut methods.

Thank you,

KATIE KINSEY, P.E. | Professional Engineer

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